

DETAIL SPECIFICATION SHEET

ANTENNA, BLADE, L-BAND (4 HOLE MOUNT, N CONNECTOR)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the antenna described herein shall consist of this document and the latest issue of MIL-DTL-25708.

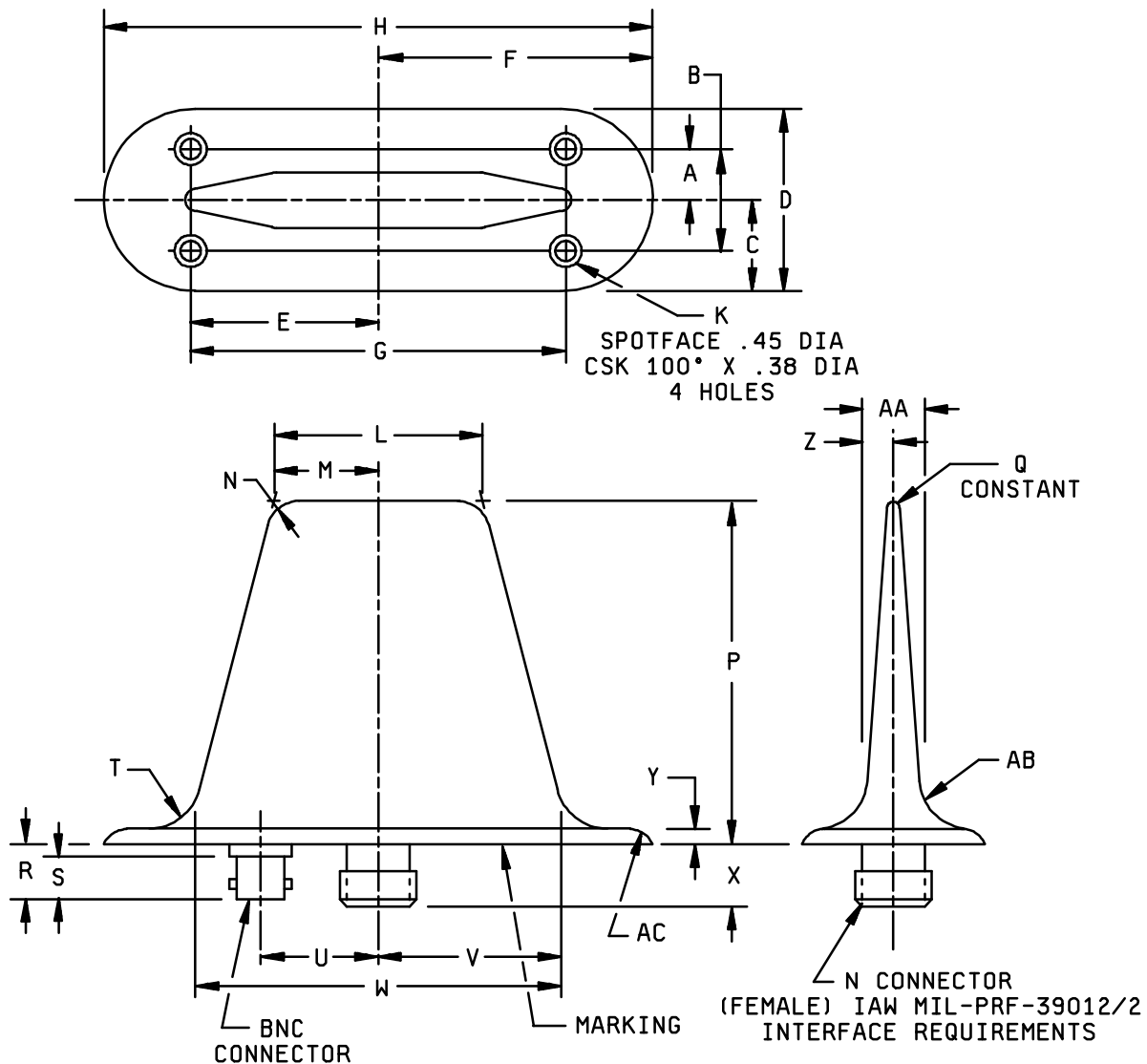


FIGURE 1. Outline drawing L-band antenna.

Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.485	.495	12.32	12.57
B	.975	.985	24.77	25.02
C	.85	.89	21.6	22.6
D	1.73	1.77	43.9	45.0
E	1.795	1.805	45.59	45.85
F	2.60	2.64	66.0	67.1
G	3.595	3.605	91.31	91.57
H	5.23	5.27	132.8	133.9
K	.191 DIA THRU	.201 DIA THRU	4.85 DIA THRU	5.11 DIA THRU
L	---	2.00	---	50.80
M	---	1.00	---	25.40
P	---	3.30	---	83.8
Q	.06 R	.09 R	1.5 R	2.3 R
R	---	.53	---	13.6
S	.41	---	10.5	---
U	1.11	1.15	28.2	29.2
V	---	1.88	---	47.8
W	---	3.75	---	95.2
X	---	.61	---	15.5
Y	.120	.130	---	3.05
Z	---	.22	---	5.6
AA	---	.44	---	11.2
Reference dimensions				
N	.31 R (TYP)		7.9 R (TYP)	
T	.31 R (TYP)		7.9 R (TYP)	
AB	.50 R (TYP)		12.7 R (TYP)	
AC	.50 R (TYP)		12.7 R (TYP)	

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

FIGURE 1. Outline drawing L-band antenna - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Materials:

Base: Aluminum alloy in accordance with ASTM B85, alloy SC84B.

Cover: Suitable material that will resist erosion of impinging particles at velocities up to Mach 2.

Temperature operating range: -55°C to 250°C.

Side loading: 10.5 psig (100 pounds).

Frequency range: 0.700 to 1.220 GHz.

Impedance: 50 ohms nominal.

VSWR:

Antenna: See figure 2.

Sampling probe: 1.50:1 maximum from 0.900 to 1.220 GHz.

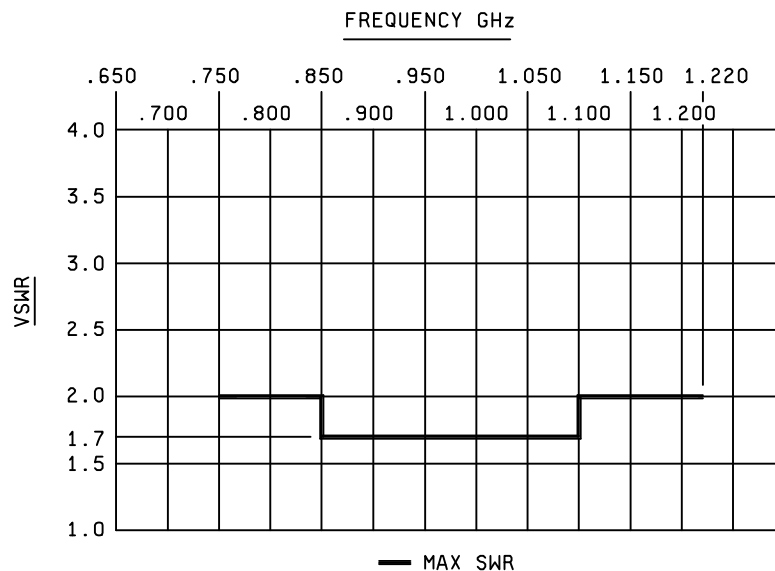


FIGURE 2. Antenna VSWR.

REQUIREMENTS - CONTINUED:

Power: 4 kW peak, 100 watts average.

Weight: 10 ounces maximum.

Part or Identifying Number (PIN): M25708/5-05.

Data list: A data list shall accompany each antenna with VSWR measurement values made at 0.750, 0.960, 1.100, and 1.200 GHz.

Custodians:

Army - CR
Navy - AS
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5985-1158-004)

Review activities:

Army - AV
Air Force - 99